

4/1/2 HW

p180 7, 9-11, 33

7.  $\triangle MJK$   $\triangle KLM$   $\triangle JKN$   $\triangle LMN$

9.  $2x - 5 = 3x - 9$

$4 = x$

$x = 4$   $JM = 3$   $MN = 3$   $JN = 2$

10.  $4x = 2x + 1$

$2x = 1$

$x = \frac{1}{2}$

$QR = 2$   $RS = 2$   $QS = 2$

11.  $T(2, 6)$   $W(4, -5)$   $Z(-3, 0)$

$TW = \sqrt{\underbrace{(2-4)^2}_4 + \underbrace{(6+5)^2}_{121}} = \sqrt{125}$

$WZ = \sqrt{\underbrace{(4--3)^2}_{49} + \underbrace{(-5-0)^2}_{25}} = \sqrt{74}$  scalene

$TZ = \sqrt{\underbrace{(2--3)^2}_{25} + \underbrace{(6-0)^2}_{36}} = \sqrt{61}$

p189 11, 12, 15-23 33-38

11.  $93^\circ$

$$\begin{array}{r} 46 \\ +47 \\ \hline 87 \end{array}$$

$$\begin{array}{r} 180 \\ -87 \\ \hline 93 \end{array}$$

12.  $70.5^\circ, 70.5^\circ$

15.  $m\angle 1 = 76$

$$\begin{array}{r} 47 \\ +57 \\ \hline 104 \end{array}$$

$$\begin{array}{r} 180 \\ -104 \\ \hline 76 \end{array}$$

$$\begin{array}{r} 76 \\ +55 \\ \hline 131 \end{array}$$

$$\begin{array}{r} 180 \\ -131 \\ \hline 49 \end{array}$$

16.  $m\angle 2 = 76$

17.  $m\angle 3 = 49$

18

$$m\angle 1 = 64$$

$$\begin{array}{r} 64 \\ + 47 \\ \hline 116 \end{array} \quad \begin{array}{r} 180 \\ - 116 \\ \hline 64 \end{array}$$

19

$$m\angle 2 = 53$$

$$\begin{array}{r} 64 \\ - 63 \\ \hline 127 \end{array} \quad \begin{array}{r} 180 \\ - 127 \\ \hline 53 \end{array}$$

20

$$m\angle 3 = 116$$

21

$$m\angle 4 = 32$$

$$64 \div 2$$

22

$$m\angle 5 = 32$$

23

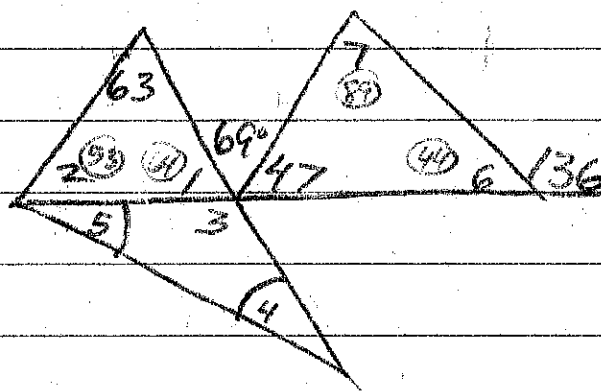
$$m\angle 6 = 44$$

$$\begin{array}{r} 180 \\ - 136 \\ \hline 44 \end{array}$$

(24)

$$m\angle 7 = 89^\circ$$

$$\begin{array}{r} 136 \\ - 47 \\ \hline 89 \end{array}$$



33.

$$m\angle 2 = 50$$

$$\begin{array}{r} 90 \\ - 40 \\ \hline 50 \end{array}$$

34

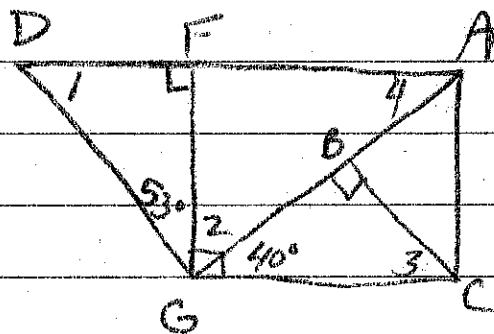
$$m\angle 3 = 50$$

$$\begin{array}{r} 90 \\ - 40 \\ \hline 50 \end{array}$$

35.

$$m\angle 4 = 40^\circ$$

$$\begin{array}{r} 90 \\ - 50 \\ \hline 40 \end{array}$$



36

$$m\angle 1 = 53$$

$$\begin{array}{r} 101 \\ - 26 \\ \hline 127 \end{array} \quad \begin{array}{r} 180 \\ - 127 \\ \hline 53 \end{array}$$

37

$$m\angle 2 = 129$$

$$103 + 26$$

38.

$$m\angle 3 = 153$$

$$\begin{array}{r} 180 \\ - 27 \\ \hline 153 \end{array}$$

